

PROJECT DESCRIPTION

I. GENERAL

This portion of the project involves the installation of a new traffic control signal at the intersection of US 50 (Ocean Gateway) and Ocean Landing Shopping Center West Entrance in Worcester County, Maryland. US 50 is considered to run in an east/west direction.

II. INTERSECTION OPERATION

The intersection is to operate in a NEMA three (3) phase, full-traffic-actuated mode. The US 50 through movements will operate concurrently. The Ocean Landing Entrance will operate alone.

An eight phase, full-traffic-actuated, solid state digital controller with telemetry interconnect, battery back-up, and (1) four-channel rack mounted time delay output loop detector amplifier and video detection equipment housed in a base mounted cabinet are to be installed at this location.

CONTACT LIST

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MR. GREG HOLSEY, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
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MR. BRUCE POOLE, UTILITY ENGINEER
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MR. EDWARD RODENHIZER, SIGNAL OPERATIONS
PHONE: (410)-787-7652

THE POWER COMPANY REPRESENTATIVE IS:
CONNECTIV
JOHN SHELTON
410-860-6361
PO BOX 1739
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EQUIPMENT LIST

A. Equipment to be supplied by the State Highway Administration.
None.

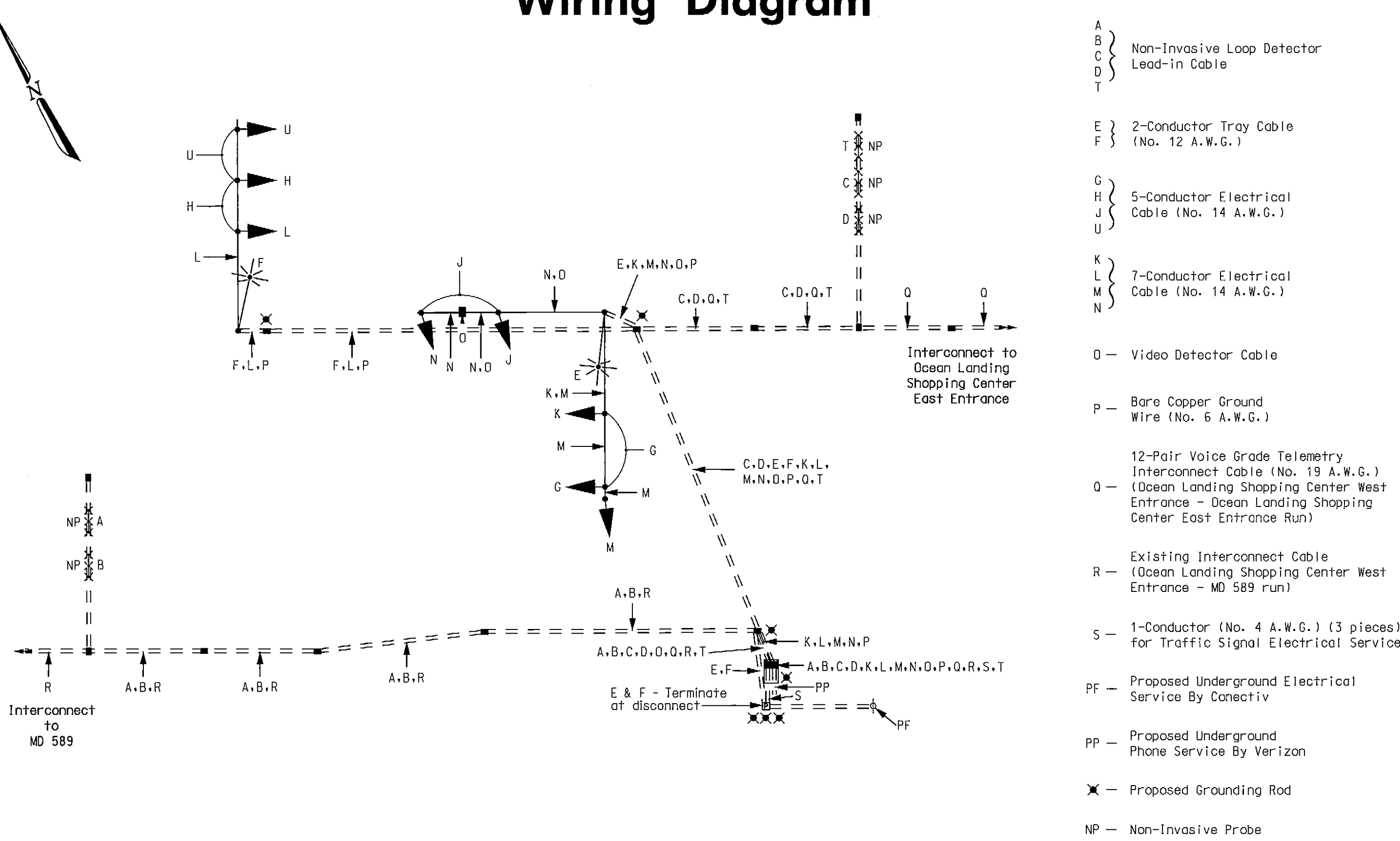
B. Approved SHA equipment to be purchased by the Developer and installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Description	Quantity	Units	Description
1	EA	27 ft. steel mast arm pole with a 60 ft. mast arm.	Lump Sum	LS	Mobilization.
1	EA	27 ft. steel twin mast arm pole with 50 ft. mast arms.	Lump Sum	LS	Maintenance of traffic.
1	EA	Standard S.H.A. traffic signal controller, master/local, base mounted NEMA 6 cabinet, video detection interface, telemetry interface equipment, (Note: Controller and cabinet shall be purchased from econolite and delivered to the S.H.A. Signal Shop for wiring and testing. Contact Mr. Ed Rodenhizer (410) 787-7650).	5	CY	Test pit excavation.
8	EA	12 in. one-way, three section L.E.D. (R,Y,G) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.	12	EA	Handhole.
1	EA	Terra Video Detection Camera	45	LF	1-conductor electrical cable (No. 4 A.W.G.).
200	LF	Terra Video Detection Cable (No. 18 A.W.G.).	400	LF	2-conductor electrical tray cable (No. 12 A.W.G.).
1	EA	30 in. x 30 in. R 3-2 sign with mast arm mounting hardware.	90	LF	5-conductor electrical cable (No. 14 A.W.G.).
3	EA	30 in. x 36 in. R 3-5(L) sign with mast arm mounting hardware.	810	LF	7-conductor electrical cable (No. 14 A.W.G.).
4	EA	48 in. x 48 in. W 3-3 "NEW" sign for ground mounting.	1575	LF	12-pair Jelly-filled telemetry Interconnect cable (No. 19 A.W.G.).
1	EA	48 in. x 72 in. Shield Assembly sign with pole mounting hardware.	300	LF	Bare copper stranded ground wire (No. 6 A.W.G.).
1	EA	30 in. x 51 in. Shield Assembly sign for ground mount.	40	LF	2 in. polyvinyl chloride (Schedule 80) electrical conduit - trench.
5	EA	Non-Invasive probe (set of 3) with 1000 ft. lead-in cable.	1250	LF	3 in. polyvinyl chloride (Schedule 80) electrical conduit - trench.
2	EA	20 ft. luminaire arm.	110	LF	3 in. polyvinyl chloride (Schedule 80) electrical conduit - bored.
2	EA	250 W H.P.S. lamp and luminaire.	60	LF	4 in. polyvinyl chloride (Schedule 80) electrical conduit - trench.
			300	LF	4 in. polyvinyl chloride (Schedule 80) electrical conduit - bored.
			11.5	CY	Concrete foundation for traffic signal equipment.
			7	EA	Ground rod - 3/4 in. diameter x 10 ft. length.
			100	EA	24 in. wide HAPPTM - white for stop line.
			1	EA	Electrical utility service equipment (120/240 V, one phase, three wire system) for an underground electrical power service as per MD-SHA Typical No. 807.05-01 (100 amp. electrical pedestal).
			160	LF	4 in. x 6 in. wood sign support.

Phase Chart

	1	2	3	4	5	6	7	
Phase 2 & 6	G	G	G	G	G	R	R	
2 & 6 Change	Y	Y	Y	Y	Y	R	R	
Phase 4	R	R	R	R	R	G	G	
4 Change	R	R	R	R	R	Y	Y	
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	

Wiring Diagram



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
US 50 (OCEAN GATEWAY) AT
OCEAN LANDING WEST ENTRANCE
BERLIN, MARYLAND

GENERAL INFORMATION PLAN

SCALE NA DATE AUGUST 9, 2010 CONTRACT NO. BW996M82

DESIGNED BY F. BROWNLEY COUNTY WORCESTER
DRAWN BY F. BROWNLEY LOGMILE 23005009.83
CHECKED BY G. J. TIMS NO. G-190
F.A.P. NO. NA TOD NO. NA

TS NO. 4297-GI DRAWING GI-02 OF 03 SHEET NO. 4 OF 6

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"Merging Innovation and Excellence"®

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